

Summary of Coal EGU SO₂ and NO_x Emissions
176A Petition Target States

OTC Annual Meeting
Baltimore, MD
June 7, 2017

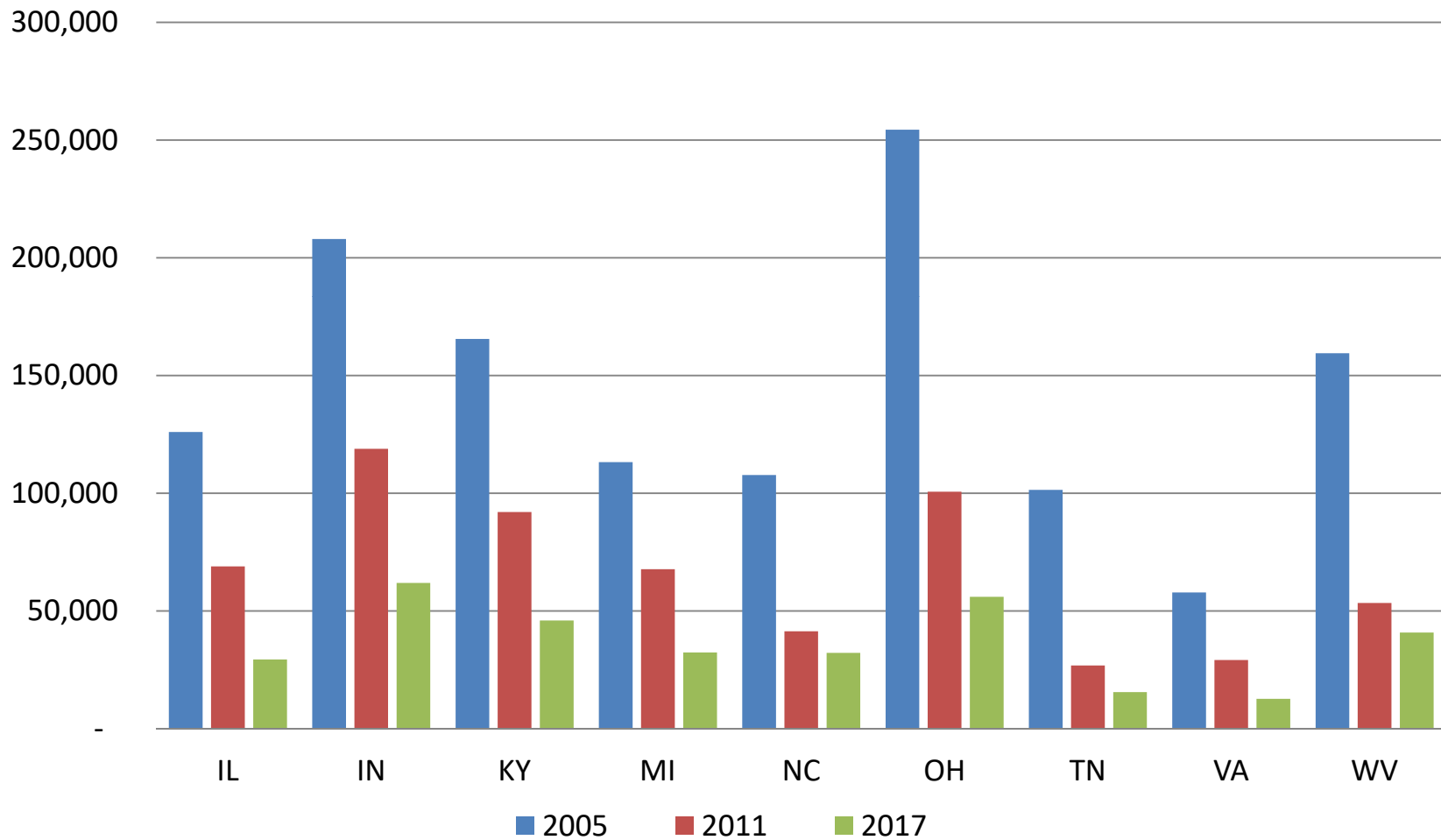
Unions for Jobs & Environmental Progress
www.ujep4jobs.org

Source: All data from EPA CAMD Database

Background

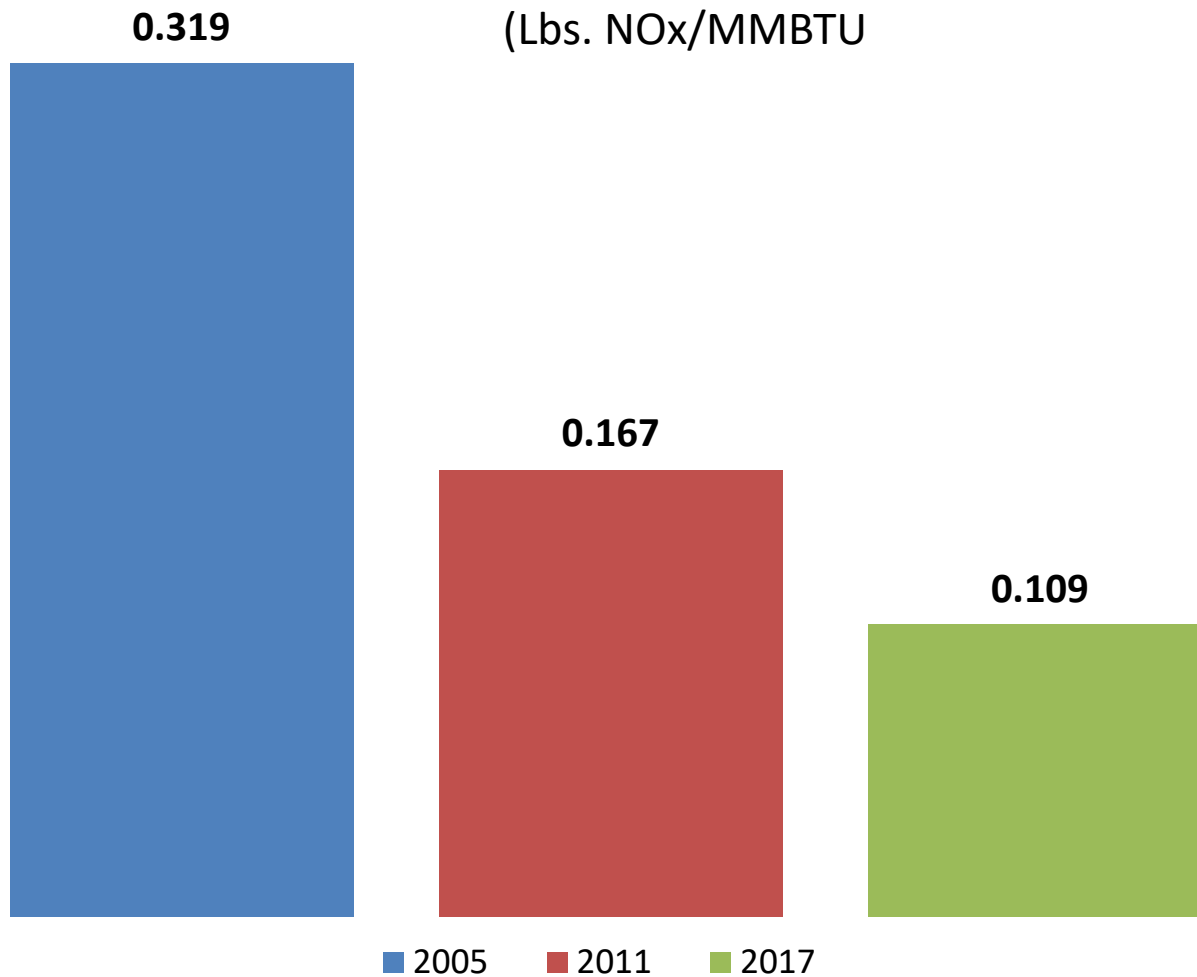
- In December 2013, several northeastern states petitioned US EPA under section 176A of the Clean Air Act to expand the 12-state Northeast Ozone Transport Region by adding eight midwestern and southeastern states.
- The 176A petition argued that NO_x emissions from coal-based electric generating units (EGUs) in the 8 target states were interfering with downwind states' attainment of the national primary ozone standard.
- Following public comment and hearings, EPA denied the 176A petition on October 27, 2017, noting that existing state and federal rules will continue to achieve significant reductions in ozone-causing pollutants from upwind states.

Coal EGU Annual NOx Emissions from 176A Target States Are 75% Below 2005 (Post-SIP Call) Levels



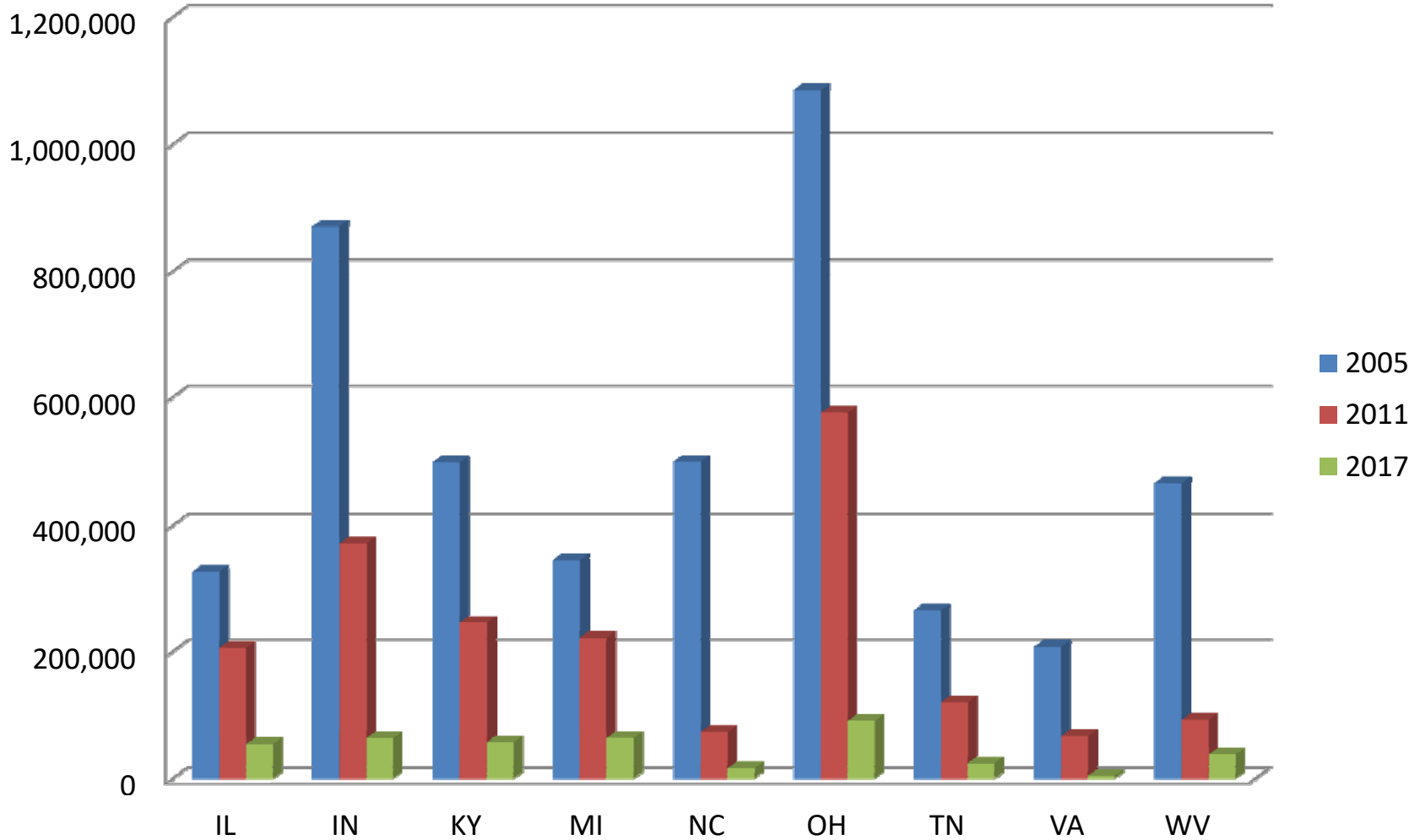
Source: US EPA CAMD

Coal EGU Average NOx Emission Rates, 176A Target States,
2005, 2011 and 2017
(Lbs. NOx/MMBTU)



Source: US EPA CAMD.

Coal EGU Annual SO2 Emissions in 176A Target States Are 90% Below 2005 (Post-Title IV)



US EPA CAMD Emission Data for Coal EGUs, 176A Target States, 2005, 2011 and 2017

YEAR	SO2 (tons)	NOx (tons)	MMBTU	LBS NOX/MM BTU	LBS SO2/MMB TU	PCT CHG 2005-17 NOX TONS	PCT CHG 2005-17 NOX/MM BTU
2005							
IL	326,632	126,048	1,055,344,017	0.239	0.619	-76.7%	-66.2%
IN	870,812	207,982	1,316,400,864	0.316	1.323	-70.2%	-56.6%
KY	500,224	165,563	988,266,503	0.335	1.012	-72.2%	-60.9%
MI	345,510	113,204	785,462,079	0.288	0.880	-71.4%	-61.8%
NC	500,936	107,749	748,528,931	0.288	1.338	-70.1%	-64.8%
OH	1,085,485	254,452	1,353,812,175	0.376	1.604	-78.0%	-67.8%
TN	266,081	101,442	592,566,908	0.342	0.898	-84.7%	-76.0%
VA	207,748	57,863	400,903,337	0.289	1.036	-78.1%	-80.1%
WV	467,082	159,481	863,343,160	0.369	1.082	-74.4%	-68.0%
TOTAL	4,570,508	1,293,783	8,104,627,974	0.319	1.128	-74.7%	-65.8%
2011	SO2 (tons)	NOx (tons)	MMBTU				
IL	205,626	68,900	1,012,880,829	0.136	0.406		
IN	371,983	118,877	1,171,756,851	0.203	0.635		
KY	246,396	92,051	986,998,556	0.187	0.499		
MI	221,475	67,769	674,083,267	0.201	0.657		
NC	73,507	41,344	657,771,886	0.126	0.224		
OH	575,463	100,682	1,167,995,598	0.172	0.985		
TN	120,325	26,837	439,043,387	0.122	0.548		
VA	66,885	29,185	302,516,447	0.193	0.442		
WV	92,609	53,415	741,019,751	0.144	0.250		
TOTAL	1,974,269	599,061	7,154,066,570	0.167	0.552		
2017	SO2 (tons)	NOx (tons)	MMBTU				
IL	54,480	29,407	729,308,820	0.081	0.149		
IN	63,734	61,899	903,004,232	0.137	0.141		
KY	57,118	45,957	701,957,624	0.131	0.163		
MI	63,903	32,363	587,327,157	0.110	0.218		
NC	16,221	32,197	635,872,332	0.101	0.051		
OH	90,748	56,019	925,655,525	0.121	0.196		
TN	24,293	15,517	377,819,844	0.082	0.129		
VA	4,141	12,647	440,863,101	0.057	0.019		
WV	38,060	40,843	690,104,904	0.118	0.110		
TOTAL	412,698	326,848	5,991,913,540	0.109	0.138		